



- NOTES:-**
1. FLOW METER IS INTENDED TO BE USED IN AN ENERGY METER STATIONS. THE FLOWMETER TO BE INSTALLED IN A STRAIGHT PIPE LENGTH OF 8D (UPSTREAM 5D & DOWNSTREAM 3D) WITH OUT ANY FITTINGS OR INSTRUMENTATION (LIKE PRESSURE GAUGE, THERMOMETER, TRANSMITTERS).
 2. REDUCER TO BE INSTALLED DIRECTLY AT THE PHEX INLET & OUTLET
 3. PHEX ARRANGEMENT SHALL BE FOR 120 % OF THE COOLING LOAD (20 % EXTRA COOLING CAPACITY) THIS PROVIDES ADDITIONAL CAPACITY SCHEDULE IF ONE PHEX IS OUT OF SERVICE. THE ARRANGEMENT SHALL BE 2 X 60 % LOW CAPACITY, 3 X 40 % MEDIUM CAPACITY X 60 % HIGHER CAPACITY.
 4. LOW POINT DRAINS & HIGH POINT VENTS TO BE PROVIDED.
 5. CUSTOMER MUST MAINTAIN 10°F TEMPERATURE DIFFERENCE AT ALL LOADS ACROSS HEAT EXCHANGER. NO BY PASS PIPING WILL BE ACCEPTED.
 6. PIPE SIZE SHALL BE BASED ON 10 FT/S MAXIMUM VELOCITY
 7. HEAT EXCHANGER SIZES LISTED IN SCHEDULE ARE GENERAL.
 8. SELECT HEAT EXCHANGERS FOR SPECIFIC BUILDING LOAD.
 9. FOLLOW THE INSTALLATION, O&M INSTRUCTIONS FROM MANUFACTURER FOR PHEX, ENERGY METER, FLOWMETER & CONTROL VALVES.
 10. FLOW SHOWN IN TABLE IS GENETIC INFORMATION BUT ACTUAL FLOW TO BE DESIGNED TO MEET ETS DELTA TEMP PHEX FLOW.
 11. SECONDARY SIDE ETS CONTROL WILL BE PART OF BLDG BMS.
 12. EMERGENCY QUICK CONNECTION FOR PIPING TESTING & COMMISSIONING.
 13. I.T.S. BMS TO BE WITH OPEN PROTOCOL FOR COMMUNICATION WITH CENTRALIZED CONTROL SYSTEM - BACNET/IP PROTOCOL
 14. THE PHEX PRIMARY/HOT SIDE & SECONDARY/COLD SIDE PIPING CONNECTION TO BE COUNTER FLOW AS PER MANUFACTURES REQUIREMENTS

OWNER:-

SOUTH ENERGY



FLSH RB-65 | RESIDENTIAL CITY

DRAWING TITLE:-
CONNECTIONS DETAILS OF HEAT EXCHANGERS (SCHEMATIC)
 (PRIMARY DISTRICT COOLING SIDE)

DRAWN BY: MSF
 PREPARED AND CHECKED BY: RS/SS
 APPROVED BY: RS
 DRAWING NO: SCALENTS
 REV:0
 DATE:

LEGEND:-

PHE	PLATE HEAT EXCHANGER
DRV	DOUBLE REGULATING VALVE
PT	PRESSURE INDICATING TRANSMITTER
TT	TEMPERATURE TRANSMITTER
PG	PRESSURE GAUGE
TH	THERMO METER
AAV	AUTOMATIC AIR VENT
MAV	MANUAL AIR VENT
DV	DRAIN VALVE
PICV	PRESSURE INDEPENDENT CONTROL VALVE
ST	STRAINER
IV	ISOLATION VALVE
EM	ENERGY METER
FT	FLOW TRANSMITTER
R	REDUCER
FS	FLOW SWITCH
CHW	CHILLED WATER

PLATE HEAT EXCHANGER SCHEDULE

ETS LOAD (TONS)	PHE CAP. (TONS)	PHE QTY	TOTAL CAP. (TONS)	FIRM CAPACITY		TOTAL FLOW GPM (L/S)	PIPE SIZE IN MM		ROOM SIZE IN METER		
				TONS	%		MAIN (A)	BRANCH (B)	L	W	H
250	150	2	300	150	60%	226 (15)	8 (200)	6 (150)	7.5	6.5	4.2
500	300	2	600	300	60%	750 (47)	8 (200)	6 (150)	7.5	6.5	4.2
1000	600	2	1200	600	60%	1500 (95)	12 (300)	8 (200)	10.0	8.0	4.2
1500	600	3	1800	1200	80%	2250 (142)	16 (400)	10 (250)	10.0	8.0	4.2
2000	800	3	2400	1800	80%	3000 (189)	18 (500)	12 (300)	12.0	10.0	4.2
3000	800	4	3200	2400	90%	4500 (284)	20 (600)	18 (400)	12.0	10.0	4.2